

CLAIMS

What is claimed is:

1. A hygiene tissue for cleaning of the skin or the urogenital area and transfer of lactic acid producing bacteria to the skin or the urogenital area, comprising:

at least one first part supplied with at least a cleaning liquid, and

at least one second part supplied with a composition including a preparation of one or more lactic acid producing bacterial strains and a lipid phase comprising at least one lipid, and wherein said preparation of one or more lactic acid producing bacterial strains has a water activity of 0.30 or less.

2. The hygiene tissue of claim 1, wherein the water activity is 0.25 or less.

3. The hygiene tissue of claim 1, wherein the water activity is 0.20 or less.

4. The hygiene tissue of claim 1, wherein the lactic acid producing bacterial strain is *Pediococcus*, *Lactococcus*, *Lactobacillus*, or a mixture thereof.

5. The hygiene tissue of claim 4, wherein the preparation of one or more lactic acid producing bacterial strains includes at least *Lactobacillus plantarum*.

6. The hygiene tissue of claim 5, wherein the preparation of one or more lactic acid producing bacterial strains includes at least *Lactobacillus plantarum* 931 (Deposition No. (DSMZ): 41918).

7. The hygiene tissue of claim 1, wherein the hygiene tissue contains 10^4 - 10^{11} colony forming units (CFU) of probiotic bacterial cells.

8. The hygiene tissue of claim 7, wherein the amount of probiotic bacterial cells is 10^6 - 10^{11} CFU.

9. The hygiene tissue of claim 1, wherein the at least one lipid is olive oil, canola oil, coconut oil, palm kernel oil, peanut oil, soy bean oil, dimethicone, paraffin oil, or petrolatum.

10. The hygiene tissue of claim 1, further comprising one or more additional components selected from the group consisting of a caring agent, a water absorbent agent, a pH buffering agent, a perfume, an antioxidant, hydrocortisone or other anti-inflammatory steroid, an antifreezing agent, a nutrient, and one or more optional cleaning additives.

11. The hygiene tissue of claim 10, wherein the water absorbent agent is an inorganic salt.

12. The hygiene tissue of claim 11, wherein the inorganic salt is calcium chloride.

13. The hygiene tissue of claim 10, wherein the pH buffering agent is a weak organic or inorganic acid.

14. The hygiene tissue of claim 13, wherein the weak organic or inorganic acid is lactic acid, ascorbic acid, citric acid, or boric acid.

15. The hygiene tissue of claim 10, wherein the antifreezing agent is skim milk, glucose, glutamate, or glycerol.

16. The hygiene tissue of claim 10, wherein the nutrient is an amino acid, a peptide, a nucleic acid derivative, a vitamin, a salt, a fatty acid, glucose, fructose, ribose, maltose, or lactose.

5 17. The hygiene tissue of claim 10, wherein the one or more optional cleaning additives is an emollient, an emulsifier, a tenside, a moisturizer, a pH-regulating agent, a chelating agent, a viscosity modifier, an antimicrobial agent, a preservative, or a fragrance.

18. The hygiene tissue according to 17, wherein the tenside is a non-ionic surfactant, an amphoteric surfactant, or an anionic surfactant.

10 19. The hygiene tissue of claim 1, wherein the first and second parts are separated by a barrier.

20. The hygiene tissue of claim 1, wherein the first and second parts are arranged on different sides of the hygiene tissue.

15 21. The hygiene tissue of claim 20, wherein the first part and the second part are separate sheets joined together along two opposite side edges.

22. The hygiene tissue of claim 21, further comprising a barrier including at least one barrier sheet between the first part and the second part and joined thereto along said two opposite side edges.

20 23. The hygiene tissue of claim 1, wherein the second part comprises a first sheet and a second sheet joined together along two opposite side edges and the first part comprises a sheet joined to one of said opposite side edges of the

second part and extending along said side edge with one of a side edge of the sheet of the first part.

24. The hygiene tissue of claim 23, wherein the first part comprises a barrier layer separating said second part from said first part when said first part is folded over said second part.

25. The hygiene tissue of claim 23, wherein at least one protective sheet is dispersed between said first sheet and said second sheet of the second part.

26. The hygiene tissue of claim 1, wherein the first and second parts are arranged in different sections.

27. The hygiene tissue of claim 24, wherein the barrier forms part of a package by being folded around said hygiene tissue, said barrier being large enough to cover the hygiene tissue and being sealed to itself without affecting said first and second parts.

28. A method for cleaning skin and transferring lactic acid producing bacteria to the skin comprising:

contacting the skin with a hygiene tissue,
wherein said hygiene tissue comprises at least one first part supplied with at least a cleaning liquid, and at least one second part supplied with a composition including a preparation of one or more lactic acid producing bacterial strains and a lipid phase comprising at least one lipid, and wherein said preparation of one or more lactic acid producing bacterial strains has a water activity of 0.30 or less.